

Paul Chang  
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HDSL  
ADSL  
Frame Relay

No HDSL repeater?

ADC

Pairing

Adaptor

## SunSet HDSL

1. Use the 2nd generation chassis (NimH battery pack)
2. Connector pannels

### T1

Right side - Dual bantam jacks for T1 line. single bantam jack to T1 external clock

Left side - Dual bantam jack and one RJ45 for HDSL line

### E1

Right side - Banana 3-pin & BNC for E1 line

Left side - Banana 3-pin & BNC for E1 external clock, RJ45 for HDSL line

### 3. LED pannel

T1 section - signal/pulses, SF-D4, ESF, SLC-96, B8ZS, Yellow alarm, AIS, Error, BPV

E1 section - signal, PCM-30, PCM-31, CRC-4, HDB3, Alarm, AIS, Error, Code error

HDSL section -

Loop 1 - signal, marginal, error

Loop 2 - signal, marginal, error

Common - pat sync, bit error, Ext clock (to indicate T1 or E1 external clock source)

### 4. PCB modules

Motoup

HDSL carrier

T1/E1 interface

DSP / keyboard

LED / speaker

LCD

### 5. Features

T1- BERT (long bit pattern test)

E1 - BERT (use dallas BERT chip, 32 bit repeating)

G.821, G.826, M2100/M550

T1/E1 signal level, frequency, wander measurement

T1/E1 voice channel drop/insert, send/rcv tone, noise (same as E10/T10) — Dial Analysis, cali

T1/E1 frame relay (option)

ISDN PRI call setup (option)

# SunSet XDSL

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SunSet ADSL

How many flavors supported?  
VDSL, non-Alcatel?

1. Use the 2nd generation chassis (NimH battery pack)

2. Connector pannels

Right side - RJ45 for ADSL connection, RJ11 for POTS handset connection

Left side - Blank

3. LED pannel

ADSL - signal, marginal, error

ATM - (to be defined)

Common - pat sync, bit error

4. PCB modules

Motoup

ADSL interface, POTS interface

ADSL processor and ATM cell generator

DSP / keyboard

LED / speaker

LCD

5. Features

ADSL BERT

G.821, G.826, M2100/M550

ADSL - G filter (1K to 3M) and level/freq measurement (option)

ADSL - send tone (~ 300Khz) (option)

ATM cell generation and BERT (option)

Histogram

Dual PCMCIA cards

Band Montp

PING?  
FOX?

HDSL - BERT

HDSL - T1/E1 adaptor test — Test terminal

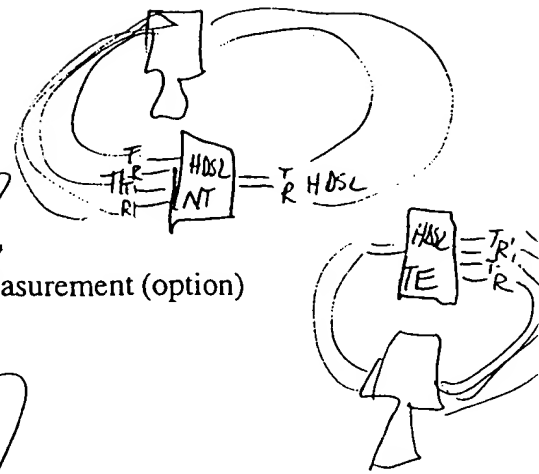
HDSL - E & F filter (1K to 750K) and level/freq measurement (option)

HDSL - send tone (~ 200Khz) (option)

Histogram

Dual PCMCIA cards

NT & LT emulation?  
Supports PairGain, Adtran, ADC?



## SunSet HDSL

### Cost break:

1. Chassis (including labels) -
2. MOTOUP
3. T1 INTERFACE
4. HDSL board carrier ++
5. LED
6. DSP
7. Battery + charger
- Total

### List price

Base unit

T1, HDSL, T1MS

PRI - option

Frame Relay - option

ESF data link - option

Intelligent products - option